

Engaging  
**Metalcasters.**

Building  
**the Future.**

Delivering  
**Results.**



AFS 2022  
**ANNUAL  
REPORT**





# TABLE OF CONTENTS

Fostering <b>Technical Innovation</b>	<b>4</b>
Talent & Workforce <b>Development</b>	<b>8</b>
Member Success & <b>Sustainability</b>	<b>11</b>
Industry <b>Stewardship</b>	<b>15</b>
Pro-Metalcasting <b>Advocacy</b>	<b>17</b>
Promotion of <b>Castings</b>	<b>21</b>
2023 Major <b>AFS Events</b>	<b>23</b>
By the <b>Numbers</b>	<b>23</b>
Mission & <b>Vision</b>	<b>24</b>
Volunteer <b>Leadership</b>	<b>24</b>
Financials & <b>Membership</b>	<b>25</b>
2022-2023 Officers & <b>Board Members</b>	<b>26</b>
Professional <b>Staff</b>	<b>27</b>

## Dear **AFS** Investors & Friends,

This is an exciting time in the life of the American Foundry Society and its thousands of members. Our member foundries are exceptionally busy meeting a variety of challenges and producing the highly engineered castings needed by our modern manufacturing economy. The outlook for the future is promising.

AFS is engaging metalcasters in ways that make a tremendous difference:

- Fostering innovation
- Planning and executing casting research
- Delivering state-of-the-art training for casting excellence
- Supporting career development for young professionals and women in metalcasting
- Encouraging students to pursue careers in metalcasting
- Advocating for pro-metalcasting public policies
- Providing business networking at the local and national levels
- Delivering tangible and quantifiable member benefits

We thank you for your involvement in 2022 and look forward to your engagement with AFS in the months to come as well.

**Engaging Metalcasters. Building the Future. Delivering Results.**

### AFS Officers



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**Adam San Solo**  
*Vice President-Infrastructure*  
*Neenah Enterprises*



*Vice President*  
**Brad Muller**  
*Vice President of Marketing*  
*Charlotte Pipe & Foundry*



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*Badger Mining Corporation*



*CEO*  
**Doug Kurkul**  
*CEO*  
*American Foundry Society*



## Fostering Technical Innovation

### Technical conferences

#### Operations and Profitability in Small and Midsize Foundries

Smaller foundries have unique business and technical challenges. A virtual AFS conference in January addressed those challenges.

#### Aluminum Casting Conference

The premier event of its kind, it was held in St. Louis in June. Keynote speaker Diran Apelian (ACRC) was among numerous expert presenters. It was followed by a foundry tour.

#### Foundry Industry 4.0 Conference

More than 110 attendees were on hand near Chicago for this AFS conference in July helping foundries evaluate smart manufacturing strategies and tactics.

#### Sand Casting Conference

Milwaukee was the setting for this popular event attended by employees from dozens of foundries in September.

#### Advanced Cupola Concepts Workshop

Metalcasters convened in Tell City, IN, for the 2022 Advanced Cupola Concepts Workshop.

#### 34th EHS Conference & Safety 101 Seminar

Environmental, health and safety personnel gathered in Milwaukee for a pair of EHS-focused events in October.



Attendees listened to a presentation at the 2022 Safety 101 Seminar in Milwaukee.

#### Upcoming 2023 AFS Technical Conferences

**2023 Cast Iron Production Conference**  
February 27 – 28 | Charlotte, NC

**Introduction to Foundry Environmental Compliance**  
March 21 – 22 | Schaumburg, IL

**2023 Advanced Air Seminar**  
May 9 – 10 | Schaumburg, IL

**2023 Copper Alloys Workshop**  
September 27 – 28 | Schaumburg, IL

**35th EHS Conference**  
October 3 – 5 | Chicago, IL

**2023 Practical Cupola Workshop**  
October 10 – 11 | Cadillac, MI

**2023 Additive Manufacturing Conference**  
November 7 – 8 | Dearborn, MI

### Foundries adopt Industry 4.0 practices

Metalcasters explored practical ways to implement smart manufacturing technologies at the 2022 Foundry Industry 4.0 Conference, as experts presented on tools for using or improving digital manufacturing processes, ranging from automation and robotics to artificial intelligence and digital twins. A follow-up conference is planned for 2024.



More than 110 attended the Foundry Industry 4.0 conference in July, hearing from experts like David Blondheim (Mercury Marine).

In June 2022, *Modern Casting* published a special supplement profiling more than a dozen companies offering smart-manufacturing products and services.

In December 2022, *Modern Casting* offered another tech-forward supplement, “Software in the Foundry 2022.” It included an overview of key software categories every foundry should have, plus profiles of ERP systems, digitization of global sourcing, and other topics.



The re-branded Engineering & Smart Manufacturing Division is chaired by Greg Bray (Electric Controls & Systems Inc.) and is helping accelerate the adoption of engineering solutions and smart manufacturing technologies. The division administers an awards program, focuses

on energy efficiency, and operates a working group dedicated to standards and common languages.

The Engineering & Smart Division is also the home for a separate Industry 4.0 Committee, chaired by Jim Wenson (Sinto America). The committee, established in 2022, had its first onsite location meetings at AFS headquarters in July and provided training to committee members at the Mercury Marine foundry in Fond du Lac, Wisconsin, this past October. Contact AFS at 1-847-824-0181 if you would like to join this division.

### Technical information

Many of the 31 Members-Only Webinars offered in 2022 were focused on key metalcasting topics. These sessions are free to members and \$250 apiece to non-members.

AFS technical staff provided technical information and referrals for members on hundreds of occasions.

### International Journal of Metalcasting

For the fourth straight year, AFS’s *International Journal of Metalcasting (IJMC)* improved its Impact Factor, growing 25% above the previous level. This follows increases of 34%, 33%, and 25% the three previous years. Impact Factor (IF) measures how much a journal has been read

and cited by other researchers. *IJMC*, edited by Thomas Prucha (MetalMorphosis LLC), features papers from authors around the globe and is the world’s most respected metalcasting journal.

### Peters-Robison Metalcasting Library

A total of 16,768 articles are available in the AFS Peters-Robison Metalcasting Library. In 2022, a total of 12,987 articles were downloaded at no cost to AFS members. The library was rededicated to honor the late R.D. “Butch” Peters and the late Stephen T. Robison. Approved by the Board of Directors on Jan. 31, 2022, the re-dedication of the library was announced at CastExpo 2022 by Technical Council Chair Dave Weiss (Eck Industries). Peters was president of Brillion

Iron Works, and the original Cast Metals Institute Library was named in his honor.

Robison worked for AFS from 1995-2022. At the time of his passing, he was Chief Technical Services Officer-Emeritus. Both were strong supporters of industry education and research.



# Breakthrough casting research now underway

Innovation is at the heart of the AFS mission — and at the heart of innovation is research. Currently, 15 research projects are in various stages of development:

## Effects of Si in High-Cr White Cast Irons

### Principal Investigators:

Richard B. Gundlach  
*Gundlach Consulting Services*

**Division:** Special Irons Committee, Cast Iron Division

### Steering Committee Chair:

Brian Bendig  
*Penticton Foundry*

## Effect of Ceramic Sand on Cast Iron Mechanical Properties

### Principal Investigator:

Dr. Scott Giese  
*University of Northern Iowa*

**Division:** Cast Iron

### Steering Committee Chair:

Brandon Reneau  
*Caterpillar*

## PVD Coatings to Aid Release for Permanent Mold Castings

### Principal Investigator:

Dr. Stephen Midson  
*Colorado School of Mines*

**Division:** Aluminum & Light Metals

### Steering Committee Chair:

Randy Oehrlein  
*Carley Foundry Inc.*

## Lost Foam Casting Molds Produced Using Additive Manufacturing

### Principal Investigator:

Marshall Miller  
*Tesseract4D*

**Divisions:** Lost Foam and Additive

### Steering Committee Chair:

Jeff Prickett  
*Metals Alloys & Refractories*

## Lost Foam Casting Molds Produced Using Polymer FDM & SLA Additive Manufacturing

### Principal Investigator:

Marshall Miller  
*Tesseract4D*

**Divisions:** Lost Foam and Additive

### Steering Committee Chair:

Jeff Prickett  
*Metals Alloys & Refractories*

## Dimensional Tolerance Assessment Using 3D-Printed Sand Casting Process

### Principal Investigators:

Jiten Shah

*PDA*

Tyler Nooyen

*Waupaca Foundry*

**Division:** Additive Manufacturing

### Steering Committee Chair:

Jerry Thiel  
*University of Northern Iowa*

## Dynamic Testing and Analytics From Working Green Sand Systems

### Principal Investigators:

Dr. Sam Ramrattan, Dr. Lee Wells,  
*Western Michigan University*

**Division:** Molding

### Steering Committee Chair:

David Fletcher  
*Lodge Manufacturing*

## Disposable, Wireless Sensor Systems for Integration Within Molds and Cores

### Principal Investigators:

Dr. Eric MacDonald  
*University of Texas at El Paso*

Jerry Thiel

*University of Northern Iowa*

**Division:** Additive Manufacturing

### Steering Committee Chair:

Rich Lonardo  
*Defense and Energy Systems Consulting*

## Machinability of Solution Strengthened Ferritic Ductile Iron

### Principal Investigators:

Dave Labyak and Paul Sanders

*Michigan Technological University*

**Division:** Cast Iron

### Steering Committee Chair:

Mark Osborne  
*Wabtec*

## Low CRI, High CSR Coke Cupola Trials

### Principal Investigators:

Steve Hay

*Hay Melting Solutions*

Bruce Blatzer

*Consultant*

**Division:** Melting

### Steering Committee Chair:

Alex Croll  
*Waupaca Foundry*

## Quantifying Aluminum Casting Quality Through H Gas — (Phase 2)

### Principal Investigator:

Daniel Hoefert

*Eck Industries, Inc.*

**Division:**

Aluminum and Light Metals

### Steering Committee Chair:

Adam Kopper  
*Mercury Marine*

## Foundry Emissions Benchmarking Database

### Principal Investigator:

Craig Schmeisser

*Mad River Strategies, LLC*

**Division:** EHS

### Steering Committee Chair:

Jeet Radia  
*McWane, Inc.*

## Digital Active Clay Measurement in Green Sand

### Principal Investigators:

Dr. James Springstead, & Dr. Sam Ramrattan

*Western Michigan University*

**Division:** Molding

### Steering Committee Chair:

Brian Rachwitz  
*EJ*

## Refining Austenite in Gray Irons

### Principal Investigator:

Jingjing Qing

*Georgia Southern University*

**Division:** Cast Iron

### Steering Committee Chair:

Leonard Winardi  
*Charlotte Pipe*

## Multi-Axial Measurement of Casting Wall Movement During SGI Solidification and Cooling In-Mold

### Principal Investigator:

Mingzhi Xu

*Georgia Southern University*

**Division:** Cast Iron

### Steering Committee Chair:

TBA

## Research Partnerships

AFS collaborates on external research with partners including the American Metalcasting Consortium and the Advanced Casting Research Center. These partnerships provide additional value to the metalcasting industry.

### American Metalcasting Consortium:

The American Metalcasting Consortium (AMC) is a research partnership of four metalcasting associations that promotes cast metals research and infrastructure

improvements to benefit U.S. military and defense needs. AMC is funded through the U.S. Department of Defense, Defense Logistics Agency, managed through the Advanced Technology Institute (ATI). Under the current 5-year program, AFS is directly managing two projects: one investigating the use of intelligent manufacturing to improve casting design and process optimization, and a second to enhance the AFS Casting Alloy Data Selection tool (CADS). Four new AMC projects are expected to begin in early FY 2024. AFS is providing oversight on two other projects: one investigating dispersion for nano-composites casting, and a second on cast metal-ceramic composite lattice structures for lightweight, energy absorbing and/or penetration resistant applications.

All four current AMC research projects will be presented at Metalcasting Congress 2023 and are on track for on-time completion in FY 2023.

### Advanced Casting Research Center:

AFS is a member of the Advanced Casting Research Center (ACRC), an industry-university research consortium focused on addressing the global foundry industry. As a member, AFS assists in oversight and selection of casting-related research. ACRC is located at the University of California, Irvine. ACRC is currently managing an AFS-recommended program on innovative heat treating for aluminum alloys.

## Applied Research Award

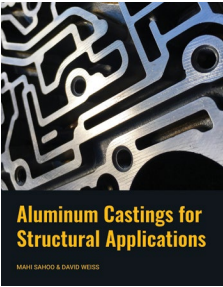
The new Applied Research Award page highlights the projects which have received this honor, which recognizes practical research that directly addresses pressing technical problems faced by metalcasting facilities. A nomination form is available online.

# AFS technical books



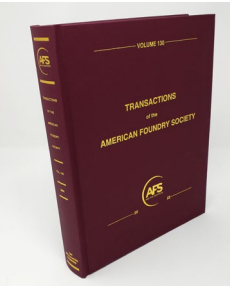
Authors Ted Schorn and Jiten Shah with their books at the AFS Store at CastExpo 2023.

AFS publishes work by subject-matter experts throughout the metalcasting industry, many of whom are also long-time members of the society. Ted Schorn (Enkei America Inc.) is a popular author whose last book, “*Improving the Effectiveness of Visual Inspection*,” was published in 2018. In 2023, he will release a new title through AFS, “Process Control for Engineers.”



Aluminum Castings for Structural Applications

A new book written by Mahi Sahoo (Suraja Consulting Inc. ) and David Weiss (Eck Industries Inc.), *Aluminum Castings for Structural Applications*, goes beyond the basics to explore the factors that affect mechanical properties of structural aluminum castings, the influence of alloying elements, solidification characteristics, heat treatment, and other advanced concepts. The book, released in April, is an ideal resource for design, casting, or manufacturing engineers, as well as metallurgists and other aluminum foundry staff, plus students.



AFS Transactions, Vol. 130

The latest discoveries in metalcasting research are highlighted in *AFS Transactions, Vol. 130*. The new volume includes 41 papers encompassing metalcasting topics including additive manufacturing, aluminum and light metals, cast iron, steel, engineering and smart manufacturing, environmental health and safety, and molding methods and materials.

Shop AFS technical publications and resources in the AFS Store: [www.afsinc.org/store](http://www.afsinc.org/store)





## Talent & Workforce Development

## Management Training & Development Summit

**Above:**  
Group shot of the attendees  
of the 2023 Management  
Training & Development Summit.

In May 2022, AFS hosted a conference for metalcasting managers and human resources professionals in Schaumburg, Illinois. The 2022 Management Training and Development Summit included sessions on labor and employment law; leading during times of change; work-life balance; and diversity, equity, and inclusion.

Speakers included Ken Chapman (Problem Solving Institute) whose popular initiative on safety and environmental compliance, The Leaders Code, has been utilized in more than 260 foundries and 500 organizations in North America, the United Kingdom, and Australia.

Another unique session at the summit focused on “second chance hiring” by using different sources of talent to fill job openings. The panel, “Think Outside of the Box to Staff Your Organization,” featured people who lead organizations designed to match open-minded business leaders with reformed individuals looking for an opportunity to contribute to team success, as well as foundry leaders who have embraced this talent source as part of their people strategy.

The next Management Training and Development Summit is planned for July 12-14, 2023, in Schaumburg, Illinois.

## Training for excellence in metalcasting

More than 170 unique companies turned to the AFS Institute for world-class metalcasting training in 2022. A total of 452 students attended the 40 live classes, held either in person or via Zoom. That brings the number of individuals trained by the AFS Institute since 1957 to nearly 91,000.

Three brand-new courses were introduced: Fundamentals of SPC and Process Capability taught by Ted Schorn (Enkei America); Leading Successful Projects taught by the Lake Forest Graduate School of Management; and Legal Strategy for Business taught by Northwestern University’s Kellogg School of Management.

A total of 3,209 Foundry E-Learning modules were successfully completed by individuals, all purchased either through a plant-wide subscription or a la carte.

In-Plant Training is once again a popular and highly effective training option, with AFS Institute instructors teaching any of the 38 Institute classroom courses in companies’ own plants. Contact us or visit [www.afsinc.org/training](http://www.afsinc.org/training) for details.



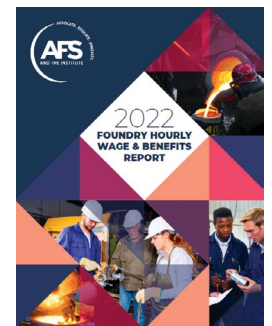
**Students developed new skills during Aluminum Metallurgy 201, a Live Online Institute course offered in November.**



**Graduates of the Institute’s Introduction to Metalcasting course posed for a photo at AFS HQ in June.**

## Wage & salary surveys

Setting appropriate compensation levels is more important than ever. AFS issued the much-awaited 2022 wage and salary surveys for both plant-floor and management positions. By popular demand, eight new job titles were added: CFO, controls/automation engineer, robotics engineer, IT/solution architect, IT manager, receptionist, AP clerk, and supply chain/logistics manager. Prepared by AFS and Profit Planning Group, these reports retail for \$1,000 each for non-members, but participating Corporate Members are provided with complimentary reports, and all other members receive a discount.



**AFS Foundry Hourly Wage & Benefits Report**

## People, talent, & leadership

The HR Division partnered with the Copper Division at CastExpo 2022 for “Conversations in Columbus about People, Talent, and Leadership.” Members of both groups shared their perspectives in a back-and-forth discussion about the challenges facing today’s workforce — and today’s recruiters. The conversation centered on issues such as shifts in job candidate behaviors since the onset of

COVID, how companies are working to improve retention rates, unique marketing opportunities to attract new talent, and how organizations can develop leaders from within. The moderator was HR consultant Joey Leonard (TalentCast HR), along with panelists Todd Ray (Decatur Foundry), Brian Lewis (Foundry Educational Foundation), and Amanda Groves (Lodge Mfg. Co.).



# Attracting future foundry workers

## Students at CastExpo 2022

Getting students excited about careers in metalcasting takes many forms. AFS provided nearly 150 AFS student members – and their FEF key professors – with free Education Passes at CastExpo 2022. The value of these Education Passes totaled more than \$100,000.

Students enjoyed visiting exhibits and attending educational sessions, as well as the IJMC-FEF Student Research Competition and the Steel Founders Society of America's Cast in Steel event, of which AFS was Presenting Sponsor. Key professors told AFS that CastExpo was in many cases one of the highlights of students' academic semester. AFS will extend complimentary Education Passes at Metalcasting Congress 2023, as well.

## IJMC/FEF Student Research Competition

It's not every day that undergrads can earn publication credits in an international scientific research journal. But the IJMC/FEF Student Research Competition, which debuted in 2022, does just that. Students presented their cutting-edge research in metalcasting or molten metal processing before a panel of experts. The highest-ranked projects are featured in the International Journal of Metalcasting, and thousands of dollars in scholarships were awarded to the winners in partnership with the Foundry Educational Foundation. In 2022, Caalen Johnson (Missouri S&T) took home first prize. The deadline for 2023 entries is March 17.



University of Northern Iowa students represented their school at CastExpo 2022.



Finalists in the IJMC/FEF Student Research Competition represented University of Northern Iowa, Missouri University of Science and Technology, and Virginia Tech.

## Melting Point

Encouraging kids to explore careers in STEM and manufacturing is key to building a skilled workforce, so AFS publishes *Melting Point*, a magazine and website aimed at students in 5th through 9th grades. It explains the metalcasting process in simple terms and shows kids how vital castings are to everyday life. It is available to AFS chapters and members hosting outreach events.



Melting Point

## Jean Bye Scholarship

A new college scholarship for women entering the metalcasting industry honors an exceptional and inspiring foundry leader. The Jean Bye AFS Women in Metalcasting Scholarship was established through a generous donation from Dotson Iron Castings (Mankato, Minnesota). Bye, now retired, was CEO of this AFS Corporate Member and is a Past President of AFS. In 2022, the inaugural award was presented to Maria Alverio (Carley Foundry).

Also launched in 2022 was the **Sinto-AFS Future Leaders of Metalcasting Education Scholarship**, funded with a donation from AFS Corporate Member SintoKogio Ltd. The scholarship provides up-and-coming leaders in metalcasting with a new opportunity to support their education. The first recipient was Hannah Blansett (Univ. of Alabama-Birmingham).



Hannah Blansett (University of Alabama-Birmingham) received the first Sinto-AFS Future Leaders of Metalcasting Scholarship from AFS Board Member Michael Halsband (Sinto America) in October 2022.

## Student Chapters

AFS welcomed South Dakota School of Mines and Technology and Purdue Polytechnic New Albany as new AFS student chapters in 2022, bringing the total to 44 student chapters. Run by students under the guidance of faculty and industrial advisors, members further their metalcasting skills. Student Chapter Leader Virtual Meet-ups are held on a regular basis.

Upon graduation, student members of AFS also receive a free year of individual membership upon graduation.

## Manufacturing Day

Members have tools for Manufacturing Day programming such as videos, presentations and information sheets thanks to AFS.

# Member Success & Sustainability

## Foundry Leadership Summit

The 2022 Foundry Leadership Summit focused on key issues facing metalcasters. Ari Fleischer, former presidential press secretary, previewed the 2022 elections. Gordon Chang, Fox News contributor and expert on China policy, provided insight into the nuances of the U.S.-China relationship. Economist Mark Vitner offered an insightful analysis of the changing economy, and author Jim Davidson delivered a stirring and motivational presentation about "Everest Resilience," among other speakers.

AFS Past President Mike Lenahan (Badger Mining) far right, led a panel discussion on the outlook for the foundry industry.

Above: AFS Vice President Brad Mueller (Charlotte Pipe & Foundry) spoke at the Foundry Leadership Summit.

Another panel discussion on how to make the most of AFS memberships was chaired by AFS Vice President Brad Muller (Charlotte Pipe & Foundry)(top view). Offering insight were panelist Pete Satre (Allied Mineral Products), Emily Shedlarski (Simpson Technologies), Jay Morrison (Carpenter Brothers) and Tom Bye (Dotson Iron Castings).



Foundry Leadership Summit attendees enjoyed the welcome reception at the historic Greenbrier Resort.



Industry executives talked about "Opportunities and Challenges Facing Metalcasters in 2023 and Beyond" at the Foundry Leadership Summit. Pictured, from left: Mike Lenahan (Badger Mining), Jason McGowan (D&L Foundry), Tyson Twait (Dotson Iron Castings), Rob Johnson (Waupaca Foundry), and Ryan Burke (Osco Industries).

## 2023 Foundry Leadership Summit

September 18 – 20, 2023  
Asheville, NC



## CastExpo 2022: Future Directions in Metalcasting

The bright future of metalcasting was on display at CastExpo 2022, which had a successful four-day run in Columbus in April. Over 4,800 metalcasters, suppliers, buyers, and students explored exhibits, tested equipment, and took part in more than 100 sessions on casting production and management. In total, 288 exhibitors participated.

Popular events included the Annual Banquet, keynotes by Commander D. Michael Abrashoff and world-renowned pollster Scott Rasmussen, the Hoyt Memorial Lecture from retired Dotson Iron Castings CEO Jean Bye, plus an iron vs. aluminum “debate.” We thank our sponsors, exhibitors, presenters, attendees, student volunteers and the AFS staff team for making CastExpo a grand success.

### Volunteer Recognition Luncheon debuts

One of the CastExpo highlights was the Volunteer Recognition Luncheon. This new event, which combined the former Division Luncheon and President’s Business Meeting, recognized outgoing and incoming AFS officers, recipients of Scientific Merit and Meritorious Service awards, volunteer leaders, and winners of the 2022 AFS/Casting Source Casting Competition. It was emceed by then-AFS President Mike Lenahan (Badger Mining Co.).



**AFS outgoing president Mike Lenahan (Badger Mining) delivered the ceremonial rammer to 2022-2023 president Adam San Solo (Neenah Enterprises) at the CastExpo 2022 Annual Banquet.**

## Metalcasting Congress 2023: Spark Success

Tickets and exhibits are now on sale for Metalcasting Congress 2023, April 25-27 at the Huntington Convention Center in Cleveland, Ohio. To reserve an exhibit on the show floor as an industry supplier or North American metalcaster, or to register, visit [metalcastingcongress.org](http://metalcastingcongress.org). AFS members receive preferred pricing on exhibits and admission.



**Mike Abrashoff, author of *It's Your Ship: Management Techniques from the Best Damn Ship in the Navy*, gave a keynote address on leadership during CastExpo 2022.**



**Attendees walked the floor at CastExpo 2022.**



**An overflow audience members listened to “The Great Debate” during CastExpo 2022.**

## Women in Metalcasting

WIM is an AFS Shared Interest Group that in 2022 again provided a platform for women in the industry to network, mentor, and share ideas. WIM hosts webinars, group events, and programming at Metalcasting Congress. The group presented the WIM Award for Excellence in 2022 to Lizeth Medina-Balliet (Neenah Foundry). Learn more or sign up for the WIM quarterly newsletter at [www.afsinc.org/women-metalcasting](http://www.afsinc.org/women-metalcasting).



**Women in Metalcasting Award for Excellence recipient Lizeth Medina-Balliet presented during a 2022 WIM webinar.**

## Future Leaders of Metalcasting

It was a dynamic year for future leaders. In 2022, FLM hosted a meeting at Lodge Mfg. in Tennessee, where they heard from expert speakers, networked among one another, toured the Lodge plant and museum, and participated in the first-ever presentation of the Sinto-AFS Future Leaders of Metalcasting award sponsored by SintoKogio Ltd.. Hannah Blansett (University of Alabama-Birmingham) received the first award presented by AFS Board Member Michael Halsband (Sinto America).

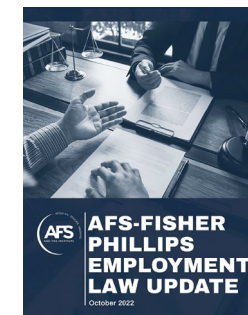
To learn more about the Future Leaders of Metalcasting, visit [www.afsinc.org/FLM](http://www.afsinc.org/FLM).



**Future Leaders of Metalcasting Meeting attendees enjoyed the welcome reception in Chattanooga, TN.**

## Employment Law Update

AFS and the law firm of Fisher Phillips teamed up in May to initiate a new Corporate Member benefit, Employment Law Update. These reports cover topics such as safety regulations, labor laws, record-keeping requirements, pending employment legislation, and more. Readership has grown every month.



**October Employment Law Update**

## Tools for business planning & forecasting

AFS issued the *Metalcasting Forecast & Trends* in January and again in July 2022. Drawing on government data, AFS surveys, economic forecasts, and other insight, the documents help companies plan for the future. They are complimentary to AFS Corporate Members and available for purchase to others.

Chad Moutray, Ph.D. (National Association of Manufacturers), spoke at a January 2022 AFS Members-Only Webinar on the year’s economic outlook for manufacturing. Moutray, chief economist for the

National Association of Manufacturers, providing perspectives on labor participation rates, manufacturing demand, wages, supply chain constraints, and more.

The AFS Quarterly Metalcasting Survey, first established in 2020, provides quarterly insight into economic outlook for North America’s metalcasters. All foundries are eligible to participate in the survey every three months.



# AFS Committees: Where hundreds achieve company & personal goals

With nearly 60 committees, task groups, and shared interest groups, committee participation is one of the key benefits of AFS membership. About 1,000 member volunteers gain updated knowledge, discuss solutions to industry challenges, network with peers, bringing new perspectives back to their workplaces, and give back to our industry.



Chris Norch (Denison Industries), past AFS president and a member of the AFS Government Affairs Committee, was one of many AFS members who hosted members of Congress in 2022, in this case Rep. Fallon (TX-4).

# Chapter events & programs

What a difference two years makes! Whereas most AFS chapters held virtual-only functions in 2020, by 2022, most chapters presented a strong slate of in-person, hybrid and/or virtual programs. This delivers technical expertise, business insights, and networking to members at the local level. Every member can connect with peers in their region by joining one of 39 AFS Chapters. To find the chapter closest to you, or to view upcoming events, visit [www.afsinc.org/regional-chapters](http://www.afsinc.org/regional-chapters).

The Chapter Officers Conference was held in Schaumburg in August 2022, with lively presentations and discussions. The 2023 Chapter Officers Conference will be held virtually on August 15, 2023 to allow for maximum chapter participation.



Some attendees of the 2022 Chapter Officers Conference stopped for a photo after breakfast at AFS HQ.



Students from several universities competed in a student casting contest at the 2022 AFS Wisconsin Regional, hosted by the AFS Wisconsin, State Line (IL/WI) and Northeastern Wisconsin chapters.



Adam San Solo (Neenah Enterprises) presented “The AFS National Vision” at the 2022 Southeast Regional on March 3. San Solo was AFS Vice President at the time, taking over as President the next month at CastExpo 2022. The Southeast Regional, presented by the AFS Piedmont, Birmingham, and Tennessee Chapters, is one of several regional conferences offered by AFS chapters each year, drawing metalcasters and suppliers from throughout their areas for learning and business opportunities.

Want to know what’s happening with AFS Chapters in your area, or when you’re on the road for business? You can find upcoming events and meeting notices on the AFS Chapter Calendar. It’s updated regularly at [www.afsinc.org/chapter-events](http://www.afsinc.org/chapter-events).



# Industry Stewardship

# National awards for service & excellence

To recognize service and excellence, AFS provides five awards at the national level, and many more at the division, committee and chapter levels. For the year ahead, the entry period for national awards will be May 1 through June 30, 2023.

The 2022 national award winners were as follows:

**William H. McFadden Gold Medal**  
Thomas E. Prucha  
President, MetalMorphosis LLC, and  
Editor-in-Chief, International Journal of  
Metalcasting

**Award of Scientific Merit**  
Sairam Ravi  
Project Manager  
University of Northern Iowa

James H. Michel  
Manager-Technical Services and UNS  
Administrator (retired)  
Copper Development Association

**AFS Service Citation**  
Scott Giese  
Professor  
University of Northern Iowa

Mike Bartol  
Vice President  
Metalcasting—Americas American  
Colloid Company, Division of  
Minerals Technologies Inc.

**William J. Grede Award**  
Jiten Shah  
President  
PDA

**Keating Founders Freedom Award**  
Jeet Radia  
Senior Vice President  
McWane

Thomas Teske  
Retired - EJ

Award recipients dating back to the early 1900s are available in the History section of [afsInc.org](http://afsInc.org).



# Foundry safety & environmental stewardship

Safety is priority #1 for metalcasters. In 2022, AFS and its committees provided EHS guidance and resources to members at every step.

A report from the AFS Safety & Health Committee released in 2022 details how metalcasters can prevent and manage heat-related illness. “*Foundry Approaches to Control the Heat Exposure of Workers*” was used to author ASTM Standard E3279 – 21, Standard Guide for Managing Heat Stress and Heat Strain in Foundries, published in May 2021. The report is free for AFS members.



**Foundry Approaches to Control the Heat Exposure of Workers**

Green Foundry Awards that recognize achievements in sustainable industry, innovation, and community engagement were presented to Benton Foundry and Waupaca Foundry.

# Telling the positive story of the foundry industry

The Innovation and Insight Award that highlights the ways the industry is making plants safer, healthier, or more ergonomically friendly places to work went to Pier Foundry.

AFS Metalcasting Safe Year Awards for one year, or consecutive years, without a lost-time incident or fatality were presented to EJ, JR Hoe, and Wisconsin Precision Casting Corporation.

Among the most popular AFS webinars each year are those covering EHS topics. In 2022, webinars tackled topics including “How to Prepare for an OSHA Inspection,” “OSHA Begins Process to Revise Its Standards for Occupational Exposure to Lead,” and “OSHA’s Increased Focus on Heat-Related Hazards and What It Means for U.S. Foundries.”

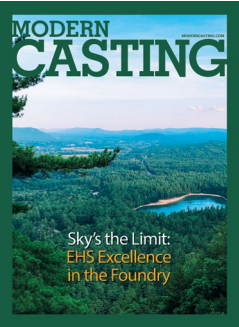
A pair of AFS conferences in October 2022 covered introductory and advanced EHS topics for metalcasters. The Safety 101 Seminar delivered programming for people new to EHS roles in foundries, and those who handle safety as one of several workplace responsibilities. The annual EHS Conference followed on Oct. 4-6. Topics ranged from waste heat management, heat stress, and fall protection to pioneers in beneficial use, sustainability programs, and environmental justice. Both conferences took place in Milwaukee.

In 2022, the EHS Division highlighted its resources to help Corporate Members set up beneficial use programs. These resources include a 58-page step-by-step guide for determining which waste streams are reusable and economically feasible. The manual is free to all members in the AFS Peters-Robison Metalcasting Library.

AFS in 2022 publicized 16 different resources that are ideal for explaining the importance of the foundry industry, as well as its career opportunities, to target audiences.

These audiences include educators and students, local officials, legislators and regulators, parts buyers and designers, as well as metalcasters themselves.

A special supplement from *Modern Casting* put the focus on EHS. “Sky’s the Limit: EHS Excellence in the Foundry,” released in February 2022, spotlighted exemplary Corporate Members whose EHS efforts earned them industry accolades, among other stories.



**Modern Casting special supplement Sky’s the Limit: EHS Excellence in the Foundry.**



**EHS Division Chair Craig Schmeisser (Mad River Strategies LLC), right, presented the 2022 EHS Service Award to Dan Plant (Metal Technologies Inc.).**

Among the resources is the most comprehensive economic impact analysis of the foundry industry in decades, available at [www.afsinc.org/impact](http://www.afsinc.org/impact). Thank you for helping AFS to tell this important story!



## Advocacy for our industry

Throughout 2022, AFS aggressively advanced the interests of American metalcasters on policy issues. These efforts were led by Government Affairs Chair Eric Meyers (Oil City Iron Works) and Vice Chair Alan Brink (Spring City Electrical); the EHS Division, led by Chair

Craig Schmeisser (Mad River Strategies, LLC) and Vice Chair Brent Charlton (Metal Technologies); and our team of Washington-based policy advocates.

## Supply-chain policy victories

Over the past two years, metalcasters have confronted unprecedented supply chain challenges.

As part of the solution, AFS teamed up with an industry coalition to pass Ocean Shipping Reform legislation. The new law, enacted in June, improves the government’s ability to probe and remedy unreasonable demurrage and other unwarranted charges. AFS members and staff pressed for this priority during in-person meetings and letters.

AFS joined with an unprecedented 460 other associations and companies in urging adoption of a resolution in Washington designed to head off a rail strike. With several key unions balking at adopting a negotiated labor accord, a work stoppage would have potentially devastating effects on a slowing, fragile economy. AFS and the business coalition helped derail several tax-hike schemes.



## Foundry tours for lawmakers

AFS members in large numbers are welcoming elected officials at their foundries to help them understand the importance of modern metalcasting. AFS will help any member foundry prepare for making the most of the public official's visit.



**Congresswoman Mariannette Miller-Meeks (R-IA) toured Amsted Rail Company's Keokuk, Iowa, freight car and wheel manufacturing facility, one of many AFS-Member foundry tours.**

## Military procurement

AFS participated at the TACOM (Tank-Automotive & Armaments Command) Casting Summit at the Rock Island Arsenal in April. The summit was to discuss DOD investments in casting technology, assist DOD in becoming a better partner to industry, and discuss solutions

to supply-chain issues related to castings. Several AFS member companies also participated.

## Buy American for taxpayer-funded projects

AFS continues to successfully advocate for Buy American requirements for many taxpayer-funded projects involving castings. The AFS-backed infrastructure investment law adopted in December 2021 will help rebuild much of the nation's infrastructure over the next several years, with meaningful business opportunities for America's metalcasters. AFS

weighed-in with comments in support of the Federal Acquisition Regulation (FAR) Council's proposal to revise and increase the domestic content threshold under the Buy American Act for federal contracts, which went into effect on October 25, 2022, for end products, including castings.

## OSHA policy

AFS provided OSHA with guidance about how it should consider modern metalcasting processes as it adopts new heat-stress rules. Also, a version of an AFS report was used to author ASTM Standard E3279 – 21, Standard Guide for Managing Heat Stress and Heat Strain in Foundries.

OSHA and California are planning changes to existing rules concerning workplace lead exposure. AFS formed a working group, conducted an industry survey, and filed comments on the advanced

notice of proposed rulemaking. This issue presents major implications for many foundries and AFS will continue to advance our industry's perspective and file comments in 2023 on Cal/OSHA's lead rule proposal, which may be the basis of the federal update.

## Environmental quality

The metalcasting industry is committed to superior environmental quality and annually invest tens of millions of dollars to meet applicable environmental requirements, and in many cases implementing beyond-compliance practices. AFS has a long history of working cooperatively with regulators and other stakeholders on the environmental challenges facing the metalcasting industry and identifying the best ways to address them to promote sound economic growth and protect the environment and human health.

Durable and recyclable metal castings play a critical role in key industrial sectors, supporting global energy and climate solutions. AFS committees develop policies and guidance for members and provide meaningful input to policymakers on regulatory compliance matters impacting issues such as environmental controls, climate change, and environmental justice.

## Tax policy

AFS is fighting for its members on several tax issues. AFS was joined by a business coalition in beating back proposals to saddle small businesses with higher tax rates. AFS is underscoring the need to retain the 2017 tax reforms, which have enabled many metalcasters to invest in their businesses, raise wages, and grow.

AFS is urging Congress to protect the ability of U.S. metalcasters and its suppliers to deduct 100% of their R&D expenses in the same year by delaying or

eliminating the amortization requirement. For the first time in nearly 70 years, companies must now amortize or deduct R&D expenses over a period of years, while China offers a super deduction allowing their manufacturers to deduct 200% of their R&D expenses. AFS seeks to extend or make permanent the 20% pass-through deduction (set to expire in 2025), and bonus depreciation for qualified business purchases (which phases down by 2027).

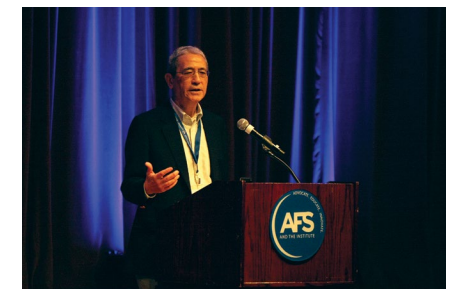
## Combating unfair trade practices

China has repeatedly violated its commitments under the World Trade Organization while at the same time strengthening its position in critical materials needed for advanced manufacturing. AFS addressed trade challenges on a number of levels.

In AFS member testimony, J.B. Brown (BCI Solutions) highlighted the importance of castings and the need for reliable access to rare earth materials to the U.S.-China Economic and Security Review Commission.

AFS also arranged for China policy expert Gordon Chang to address the Foundry Leadership Summit in September and engaged an expert speaker on strategic materials from the Woodrow Wilson

Institute to brief AFS members on needed actions and reforms. AFS is continuing to represent metalcasters on this issue.



**Gordon Chang, an expert on U.S.-China relations, addressed the Foundry Leadership Summit in September.**



# Government Affairs Fly-In

AFS members returned to Capitol Hill in 2022 to personally make the case for pro-metalcasting public policies. AFS draws on personal stories from lawmakers’ constituents, in addition to the AFS-executed Economic Impact Analysis for metalcasting industry statistics, when engaging in this direct advocacy.

AFS is asking all foundries and suppliers to send at least one representative to the 2023 Fly-In, which is June 20-21, 2023, in Washington, D.C.



Members of the AFS Texas delegation met with Sen. John Cornyn (R) during the 2022 Fly-In on Capitol Hill.

## 2023 Government Affairs Fly-In

June 20 – 21, 2023  
Washington, D.C.

Join AFS members to support and defend the metalcasting industry on Capitol Hill, June 20-21. AFS makes it easy: materials are provided and congressional appointments are made. This year the home base will be the recently renovated Hotel Washington, conveniently located just a block from Pennsylvania Avenue. Help AFS stand up for the metalcasting industry!

# Honoring Congressional allies

Continuing a long tradition, AFS in 2022 honored three more lawmakers with the MIC (Metalcasting Industry Champion) Award. Recipients included Sen. John Cornyn (R-TX), Rep. Mike Gallagher (R-WI), and Rep. Mike Bost (R-IL). These

awards are reserved for lawmakers who consistently make pro-metalcasting votes on key issues.



J.B. Brown, CEO of AFS Corporate Member BCI Solutions, spoke to Fox News’ Steve Doocy about the challenges facing metalcasters in 2022.

## Promotion of Castings

# St. Marys foundry

GRAY, DUCTILE AND NI-RESIST IRON CASTINGS

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## Buyer & designer educational track

CastExpo 2022 featured a track of six sessions specially tailored to the unique needs of casting buyers, designers, and specifiers. As the major North American industry event for the metalcasting supply chain for the 2022-2024 period, CastExpo attracted many parts purchasers seeking information and relationships with foundries. The sessions focused on topics such as the best way to reshore

previously offshored parts, how to select the correct alloy for the job, and other issues that foundry customers should understand. The Casting Designers & Buyers Track was offered on the show floor in the *Casting Source* Theater. As in 2022, *Casting Source* will again present the Casting Designers and Buyers Track at Metalcasting Congress 2023 in Cleveland.

## Casting Source magazine

Published by AFS, the *Casting Source Directory* is both an annual printed publication and an online search tool that engages 12,000 casting buyers and designers. These two resources allow supply chain decision-makers to filter and sort foundries by alloy, process, casting size, and location, giving them a list of potential partners to source their next casting project. Listings in the *Casting Source Directory* are available to all AFS Corporate Member metalcasters.

Foundry employees also have their own source for identifying the right supplier – **SupplierMarketplace.net**, which features

dozens of foundry products and services offered by hundreds of AFS Corporate Member suppliers.





## 2022 Casting of the Year

The annual competition draws attention to the value of North American castings to designers and buyers worldwide, highlighting conversions from other processes, reshoring from overseas, and other opportunities for OEMs to successfully integrate castings into their products.

The 2022 AFS/Casting Source Casting of the Year Award was presented to Waupaca Foundry for its 12-in. bucket assembly for the backhoe of a compact utility tractor. The conversion from a welded steel fabrication, which involved reshoring back to the U.S., is the first cast iron bucket of its kind on the market.

The Casting of the Year competition, judged by a slate of metalcasting experts, is one of the industry's foremost recognitions of casting excellence.



### Newcomer of the Year

#### Wire Stripper Block

Dakota Foundry Inc.

(Webster, South Dakota)

**Material:** Gray iron Class 35.

**Process:** 3D-printed sand molding.

**Weight:** 2,000 lbs.

**Dimensions:** 48 x 17 in.

**Application:** Equipment that makes different gauges of wire



### Outstanding Achievement

#### Charger Housing

Meridian Lightweight Technologies

(Strathroy, Ontario, Canada)

**Material:** AZ91 magnesium.

**Process:** High-pressure diecasting.

**Weight:** 2.35 kg.

**Dimensions:** 60 x 30 x 9 cm.

**Application:** Electric vehicle battery charger housing.



### Outstanding Achievement

#### Top Frame

TPI Arcade (Arcade, New York)

**Material:** Aluminum.

**Process:** V-process.

**Weight:** 6.7 lbs.

**Dimensions:** 21 x 13.5 x 2.9 in.

**Application:** Mammography equipment



### Outstanding Achievement

#### Pump Housing Casting

O'Fallon Casting (O'Fallon, Missouri)

**Material:** Aluminum C355-T6.

**Process:** Investment casting.

**Weight:** 7.5 lbs.

**Dimensions:** 13 x 7 x 7 in.

**Application:** Aerospace/defense.



### Best Example of a Casting Conversion

#### Hydrogen Fuel Cell Enclosure

Tooling & Equipment International (Livonia, Michigan)

**Material:** A356-T6.

**Process:** Low pressure precision sand.

**Weight:** 78.9 lbs.

**Dimensions:** 33.5 x 22.8 x 11.8 in.

**Application:** Main enclosure for fuel cell used in power generation.

### Casting of the Year

#### 12-in. Bucket Assembly

Waupaca Foundry Plants 4 and 5 (Mariette, Wisconsin, and Tell City, Indiana)

**Material:** Ductile iron.

**Process:** Green sand vertical molding.

**Weight:** 65 lbs.

**Dimensions:** 18 x 11.8 x 11.8 in.

**Application:** Compact utility tractor

## 2023 Major AFS Events

### 2023 Cast Iron Production Conference

Charlotte, NC

February 27 – 28, 2023

### Introduction To Foundry Environmental Compliance

Schaumburg, IL

March 21 – 22, 2023

### Metalcasting Congress 2023

Cleveland, OH

April 25 – 27, 2023

### 2023 Advanced Air Seminar

Schaumburg, IL

May 9 – 10, 2023

### 2023 Government Affairs Fly-In

Washington, D.C.

June 20 – 21, 2023

### 2023 Management Training and Development Summit

Schaumburg, IL

July 12 – 14, 2023

### 2023 Foundry Leadership Summit

Asheville, NC

September 18 – 20, 2023

### 2023 Copper Alloys Workshop

Schaumburg, IL

September 27 – 28, 2023

### 35th Environmental, Health and Safety Conference

Chicago, IL

October 3 – 5, 2023

### 2023 Practical Cupola Workshop

Cadillac, MI

October 10 – 11, 2023

### 2023 Additive Manufacturing Conference

Dearborn, MI

November 7 – 8, 2023

Visit [www.afsinc.org/conferences](http://www.afsinc.org/conferences) for more information on all upcoming AFS Conferences.

By the Numbers

Eighteen committee tours of foundries



31 new webinars presented in 2022

Individual Members

6,197



978

Corporate Members

13

AFS divisions

44

AFS committees

14

Task groups

One

Working group

Two

Shared interest groups



3,209

Foundry E-Learning modules completed in 2022

16,768+

Articles in the AFS Peters-Robison Metalcasting Library

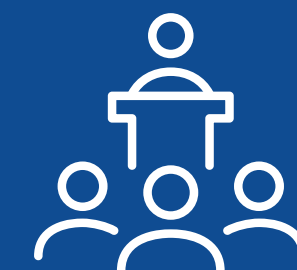


12,987+

Downloads from the AFS Peters-Robison Metalcasting in 2022

452

Number of students who attended Institute classes in 2022





# Mission statement

The mission of the American Foundry Society is to advance the success of its members and the metalcasting industry through advocacy, education, and innovation.

# Vision statement

AFS will be recognized worldwide by industry stakeholders as the leading voice and resource on technical, management, and advocacy priorities pertaining to the metalcasting industry.

# Volunteer leadership

## 2021-2023 TECHNICAL COUNCIL OFFICERS

**Chair:**  
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*Eck Industries*

**Vice Chair:**  
Adam Kopper  
*Mercury Marine*

**Secretary:**  
Tim Hoyt  
*Allied Mineral Products*

**Secretary-elect:**  
Mark Osborne  
*Wabtec - GE Transportation*

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*Alpha Resources LLC*

**Vice Chair:**  
Jason Gutierrez  
*Soundcast*

**Secretary:**  
TJ Costello  
*Charlotte Pipe & Foundry*

## 2022 DIVISION CHAIRS

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**Chair:**  
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*M&P Gravity Works LLC*

**Aluminum & Light Metals Division**  
**Chair:**  
Herb Doty  
*General Motors*

**Cast Iron Division**  
**Chair:**  
Eric Nelson  
*Dotson Iron Castings*

**Copper Alloy Division**  
**Chair:**  
Jim Valentine  
*Neptune Technology Group Inc.*

**Engineering & Smart Manufacturing Division**  
**Chair:**  
Gregory Bray  
*Electric Controls & Systems Inc.*

**Environmental, Health & Safety Division**  
**Chair:**  
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*Mad River Strategies LLC*

**Lost Foam Division**  
**Chair:**  
Tedd Sheets  
*Betz Industries*

**Melting Methods & Materials Division**  
**Chair:**  
Pete Satre  
*Allied Mineral Products Inc.*

**Molding Methods & Materials Division**  
**Chair:**  
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*Badger Mining Corp.*

**Steel Division**  
**Chair:**  
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*Western Michigan University*

**Marketing Division**  
**Chair:**  
Norwin Merens  
*Lillian Group Marketing LLC*

**Government Affairs Division**  
**Chair:**  
Eric Meyers  
*Oil City Iron Works*

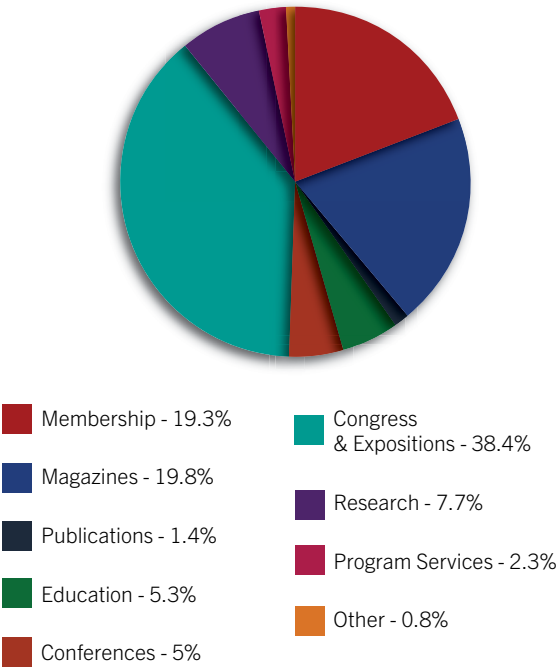
**Human Resources Division**  
**Chair:**  
Phil Eatherton  
*Waupaca Foundry*

**Women In Metalcasting**  
**Chair:**  
Alexandria Trusov  
*Alpha Resources LLC*

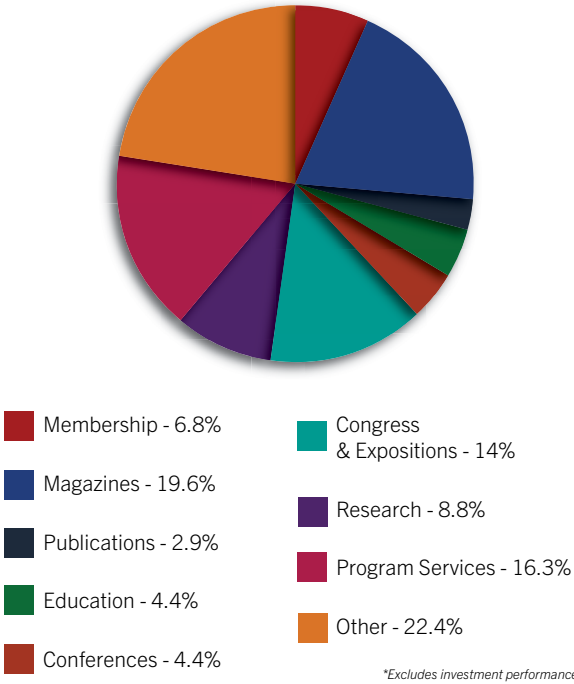
**Future Leaders of Metalcasting**  
**Chair:**  
Tom Bye  
*Dotson Iron Castings*

# 2021 - 2022 AFS and the Institute Financials

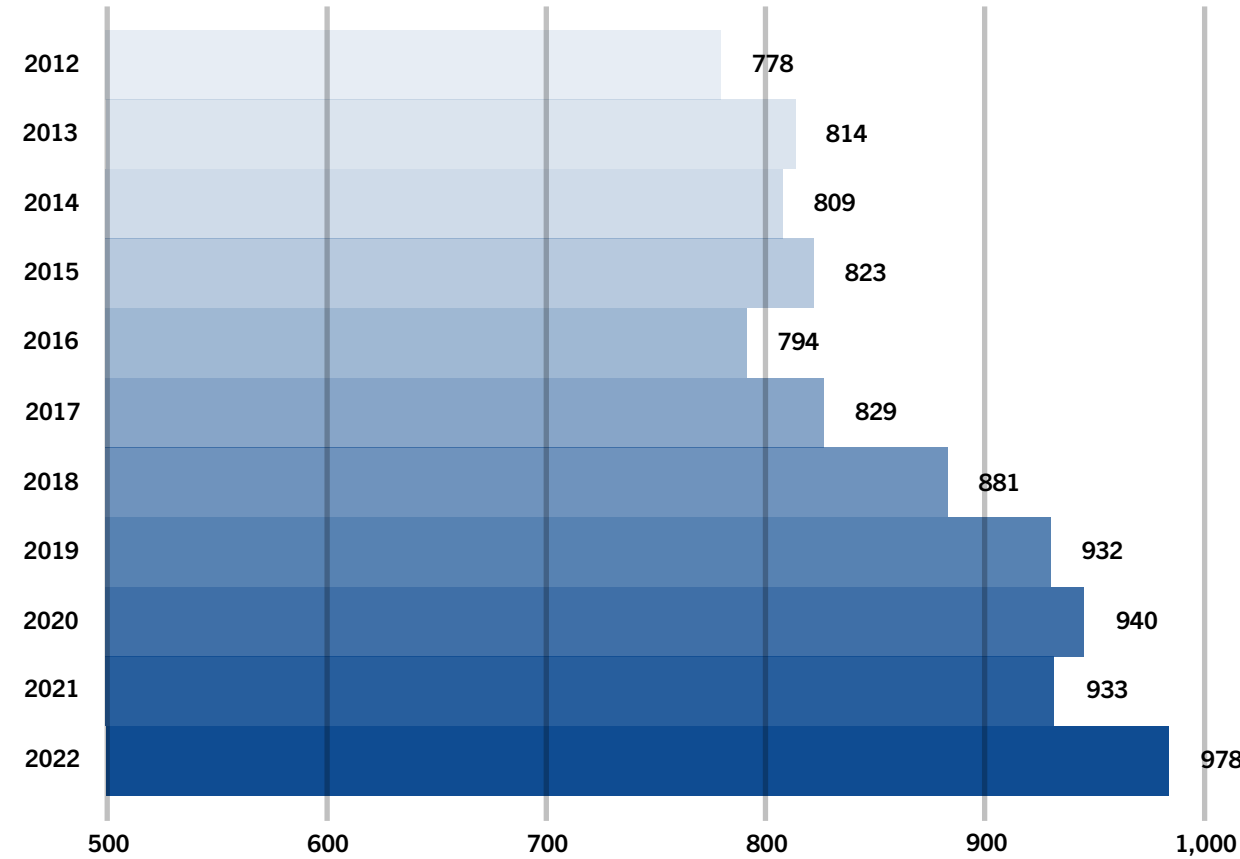
2021 - 2022 Revenue



2021 - 2022 Expenses



# 2012 - 2022 AFS Corporate Memberships





2022 - 2023 Officers & Board Members



President

Adam  
San Solo

Vice President -  
Infrastructure

Neenah  
Enterprises



Vice  
President

Brad  
Muller

Vice President  
of Marketing

Charlotte Pipe  
& Foundry



2nd Vice  
President

Angela  
Schmeisser

President  
and CEO

St. Marys  
Foundry, Inc.



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Past President

Michael L.  
Lenahan

Senior  
Industrial Sales

Badger Mining  
Corporation



CEO

Doug  
Kurkul

CEO

American Foundry  
Society

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Ameen

Vice President  
Industry Relations

Amsted Rail  
Company, Inc.



John P.  
Haas

Plant Manager

Grede



John  
Lancaster

Plant Director

General Motors

2020 - 2024 Directors Class



Rob  
Johnson

Executive VP  
Administration,  
CFO, and Treasurer

Waupaca  
Foundry



Jim  
Mancuso

Vice President

Mancuso  
Chemicals, Ltd.



Andrew C.  
Renkey

V-Process Foundry  
Group President

Ligon Industries LLC



Peter  
Satre

Manager – Corporate  
Engineering

Allied Mineral  
Products LLC

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Bartlett

Wolf Associate  
Professor of  
Metallurgical  
Engineering  
Missouri University  
of Science and  
Technology



Kiley Eck  
Hayon

President

Eck Industries, Inc.



Jay M.  
Morrison

VP of Equipment  
Sales/Eastern Region  
Sales Manager

Carpenter  
Brothers Inc.



Liz  
Ulman

Vice President

Dotson Iron Castings

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Managing Member  
Goldens' Foundry &  
Machine Co.



Alan  
Brink

President

Spring City  
Electrical Mfg. Co.



Michael  
Halsband

President & CEO

Sinto America



Bill  
Nestel

VP of Manufacturing

Rochester Metals Corp.

Professional  
Staff

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Chief Executive Officer

Accounting & Finance

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Senior Director of Accounting & Finance

Valerie Stramaglia  
Senior Associate Director of Accounting  
Services

Inga Blistrabas  
Staff Accountant

Marketing &  
Business Development

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Vice President of Business Development

Fabio Cavaliere  
Advertising Sales Manager - West

Kimberly Farrugia  
Business Development Manager

David Kathe  
Advertising Sales Manager - East

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Director of Marketing & Communications

Shannon Wetzel  
Managing Editor

Tyler Buchenot  
Senior Manager of Creative Services

Mike Berrafato  
Magazine Art Director

Bill Finn  
Marketing and Communications Specialist

Larry Nigh  
Graphic Designer

Kim Phelan  
Contract Associate Editor

Human Resources  
& Administrative Services

Cathy Potts  
Senior Director of Human  
Resources & Administrative  
Services & Administrative Services

Tony Perrone  
Mailroom/Warehouse Coordinator (Part-time)

Government Affairs

Jeff Hannapel  
The Policy Group

Stephanie Salmon  
Vice President Government Affairs

Information Technology  
& Operations

Mike Lakas  
Senior Vice President for  
Information Technology,  
Operations, and Trade Shows

Deana Barrueta  
Operations Support and  
Exhibits Coordinator

Rich Fett  
Information Systems Manager

Barbara Jackowski  
Customer Service Manager

Katie Matticks  
Senior Project Manager

Carmen Rodriguez  
Receptionist/Customer Service

AFS Institute

Jennifer Christian  
Director of Training Solutions

Lisa Streator  
Customer Support Specialist

Technical, Research,  
& Library Services

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Vice President of  
Metalcasting Technical Services

Travis Frush  
Technical Director  
of Metalcasting Services

Greg Kramer  
Technical Director

Kimberly Perna  
Senior Technical Coordinator

Sue Thomas  
Senior Technical Editor

Bo Wallace  
Senior Technical Associate

AFS Staff  
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